



شركة تاج الإرتفاع
للمصاعد المحدودة

TAJ AL-IRTIFA ELEVATORS LTD

Escalator
Moving Walk

FUJISJ

FUJI ELEVATOR CO.,LTD

FUJISJ Elevator

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TAJ AL-IRTIFA ELEVATORS LTD

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Company profile



FUJI ELEVATOR

Be a customer satisfaction elevator

Fuji Elevator Co., Ltd. and Japan Fuji Machinery&electric Co.,limited jointly created the only official Fuji brand in China-FUJISJ. The company covers an area of more than 400 acres, has more than 2,000 employees, and has a technical research and development team of nearly 100 people. The company has world-class modern manufacturing equipment, with an annual output of 20,000 vertical elevators and 2,000 escalators. It has been sold to dozens of countries and regions such as South America, North America, the Middle East, and Central Asia.

FUJI Elevator Co., Ltd. is a large-scale professional elevator supplier engaged in elevator research and development, manufacturing, sales, installation and maintenance services. It provides high-speed elevators, passenger elevators, hospital elevators, sightseeing elevators, escalators, moving walks, freight elevators, and automobiles. A series of elevator products and services such as elevators and villa elevators. The company now has more than 20 series of elevator products with more than 50 specifications, and has reached the domestic and international advanced level. It is one of the elevator manufacturers in the elevator industry with complete product specifications, multiple categories, and rated load capacity. We are committed to building the world's largest production base for complete elevators.

FUJI elevator will develop in the direction of producing energy-saving, less pollution, low noise, long life, and green elevators. We comprehensively apply technologies in the areas of IT, environment, and energy to elevators and escalators to realize intelligent production. High-tech products and integrated building management services are integrated, and advanced technology and professional strength are used to provide high-quality services for the upward development of the city.

FUJI Elevator will adhere to the craftsman spirit of "safety, professionalism, energy saving, and leadership" to intelligently manufacture; the concept of "exploitation, development, and win-win" to serve customers at home and abroad.





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Bridges to urban mobility

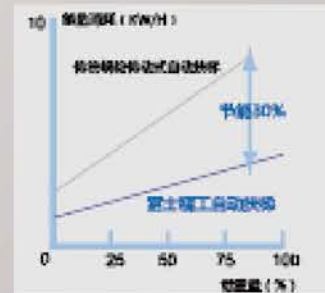
FUJI escalator is manufactured with international advanced technology and advanced design concept. give full play to the characteristics of its convenience to provide passengers with a new sense of beauty and comfort In modern cities, the bridge of urban mobility is erected.

Escalator series

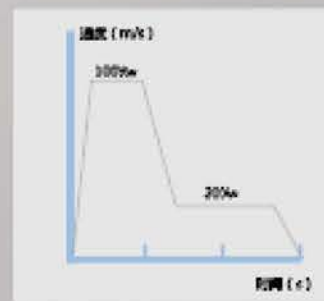


Advanced scientific research technology, Casting the highest quality

FUJI escalator is manufactured with international advanced technology and advanced design concept. Its escalator has the characteristics of smooth operation, low noise, durability and convenient maintenance. Its exquisite structure, exquisite ladder, exquisite guide, luxurious appearance and beautiful appearance provide passengers with a new sense of brightness and comfort, so that you can appreciate the extraordinary charm and luxury of modern architecture style.



Efficiency comparison conceptual diagram between helical gear speed reducer and worm-gear speed reducer



Variable frequency specification running conceptual diagram

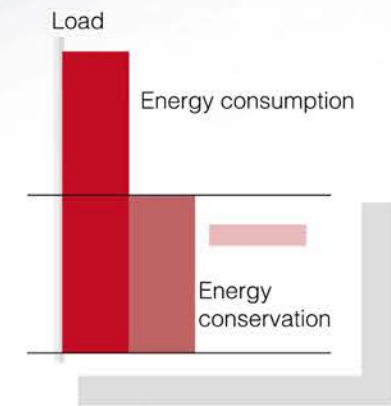
Efficient transmission, frequency conversion and energy saving

Compared with the traditional worm gear decelerator, the highly accurate and effective helical gear decelerator brings about the higher efficiency. It fully ensures the effective use of energy.

It has variable frequency specifications, multiple modes to test the passenger flow. It automatically stops when nobody is in the elevator. It thus avoids invalid operation and saves the electric power.



Moving walk series



Fashion beautiful bring better bearing experience

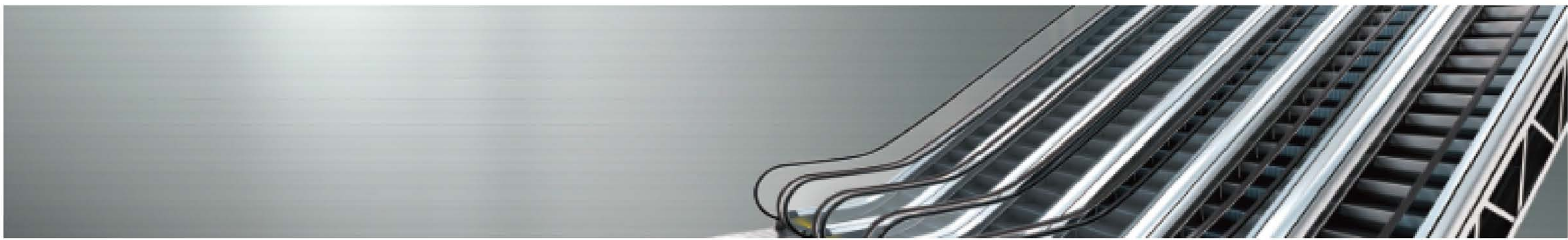
FUJI moving walk satisfies the transport requirement of large passenger flow in public traffic and transport areas such as the colorful modern city, large-size supermarket, public building, airport, exhibition center, transport hub etc. because of its own characteristics. It meets long-distance walk. People feel as easily as walking on firm earth while carrying luggage cart, baby's cart, the vehicle for the disabled in moving walk. It is greatly convenient for the people's outing and shopping. It becomes first-choice solution plan in large-size supermarket, airport, exhibition center, transport change-over station and so on because of its prompt, convenient and pleasant travel requirements.

Energy-saving operation mode

It can adopt variable frequency control or the automatic starting mode to fulfill the energy-saving.

Compact structure and smooth operation

Fish web girder short pedal greatly reduces the space span and saves customers valuable building space. running smoothly, durable, safe and quality has always been outstanding, let passengers travel shopping, enjoy the most a time of leisure and pleasure.



Cover-plate safety design



Handrail entry safety protection



Step sunken protection



Protection against broken step chain



Drive chain protection



None operational reversal protection



Comb-teeth safety protection



Lost step detection

Four advantages



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Beauty of Precision Structure

High strength metal structure constructs precision sizes. Super consciousness aesthetics design perfectly combines with the building.



The Beauty of Luxurious Temperament

Toughened glass wainscot, more superior deluxe decoration



The Beauty of High Efficiency and Safety

It installs trouble display. It can accurately analyze the running condition and displays it in the screen. It thus ensures the prompt and effective maintenance.



The Beauty of Technology Sensation

Automatic start / stop device is near floor plate. It installs automatic induction sensor. When the passenger gets close to it, it automatically induces, tests and operates. It automatically stops when the passenger leaves.



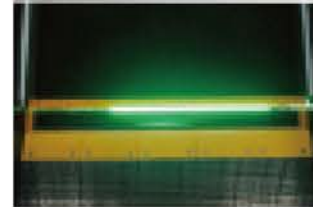
Technology excellence



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Demarcation lamp

Green light softly beams out from the space between the engaged teeth of the two neighboring steps to remind the passengers to be aware of the level sections both at the entrance and exit, resulting in increased security for the passengers.



Step loss protection device

The monitoring device should be installed at both the driving station and the steering station to ensure that the gaps caused by the missing step pedal will not appear at the entrance regardless of whether the equipment is up or down. The protective functions of the monitoring devices installed in the driving station and the steering station should be verified separately in the normal operation state. After the device is operated, only manual reset is needed.



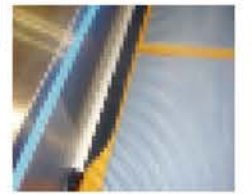
Handrail entry safety protection

Protection against risk of foreign matters being jammed into handrail entry.



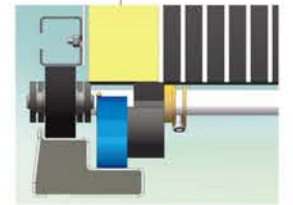
Skirt panel brush

Brush is installed between step and skirting so that the passengers' shoes do not touch the skirt panel.



Side guide high accuracy step guide rail system

High rigidity big profile guide rail with nose used as transverse step positioning, guarantee the minimum gap between the skirt and step, decrease the possibility of objects clamp in between.



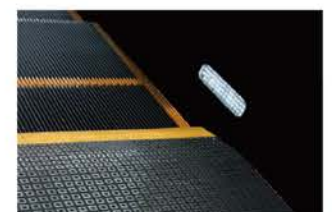
Automatic lubricator

It is controlled by micro-computer. It gives lubricating signal within the set period. It automatically connects with hydraulic pump for oiling and lubrication.



Comb teeth safety devices

Front ends of comb teeth plates are installed on springs. If any foreign substance is nipped between moving escalator steps and static comb teeth plates; such plates will move in vertical or backward directions, and trigger the safety switches monitoring at both sides of the plates, and the escalators will be automatically stopped.



Standard functions



Standard Function

Static electricity protection	Eliminate static electricity raised from running of steps.
Emergency stop button	Push the emergency stop button to stop the escalator/moving walk against emergency raise.
Skirting protection	Protection against risk of foreign bodies being jammed into clearance between steps and skirting.
Handrail entry safety protection	Protection against risk of foreign bodies being jammed into handrail entry.
Main drive chains safety protection	Protection against risk of drive chains being breakage or undue elongation.
Over-speed protection	Protection against risk of speed being over 20% of rated speed.
Under-speed protection	Protection against risk of speed less than 80% of rated speed.
Un-intentional reversal protection	Protection against risk of unintentional reversal protection.
Lack of phase, error phase protection	Protection against risk of phase failure.
Short circuit protection	Protection against risk of short circuit.
Over-load protection	Protection against risk of motor continually over-load.
Step sagging protection	Protection against risk of steps being breakage and sagging.
Broken step chain protection	Protection against risk of step chains being breakage or under elongation.
Comb teeth safety protection	Protection against risk of foreign bodies being trapped at the point where the step enter the comb.
Handrail speed and broken handrail monitor	It detects the handrail speed and monitors the broken handrail.
Skirting anti-clamp device	It sets protection brush in the skirting on both sides of the step.
Step missing detection	It detects the step missing in the stairway.
The brake opens the monitor switch	It monitors whether the brake opens or not in during the escalator running.
Handwheel and handwheel protection cover open safety	During the use of handwheel, when open the handwheel and the handwheel protection cover, the safety switch will cut the safety circuit against escalator running.
Floor-plate monitor switch	When the pit cover plate opens, it cuts off safety circuit and stops the escalator safety switch.
Monitor of brake distance	It monitors brake distance of the escalator and auto-walk.

Optional function

Frequency conversion control technology

When chooses the frequency converter, it can effectively reduce the energy consumption, usually save 60% of the energy in the little passenger flow and efficiently cut down 80% of the peak-value current. The escalator operates at low speed under no-load conditions, while detects the accessing passenger, it will return to normal speed for the operation.



Water-oil separator (for outdoor type)

It separates the escalator oil and water. Rain exhausts through oil / water separator. We regularly clean oil mainly for the environmental protection purpose.



Comb lighting

The illumination has been installed in the skirt panel near the comb plate. It offers the lighting for the step and the comb plate. It is more convenient for the passengers to up and down.



Intermittent operation (automatic start/stop)

The sensor inside the handrail which is near the floor plate can detect the passenger that enters into the escalator, and then it will automatically start into the operation. After all the passengers leave, it will automatically stop the operation again in order to save the energy.




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Optional function

Running direction indication

The running direction and forbidden display mark have been placed in the inlet and outlet of the handrail. The obvious running or forbidden instruction ensures the safe riding of the passengers with great ease.

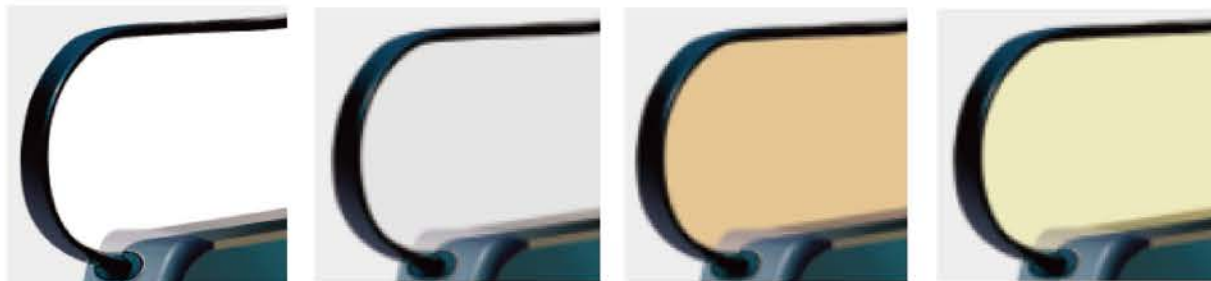


Heating device

Each escalator usually installs three heating devices. One is beside the host in the upper machine room. It mainly heats the host. The second is installed in the mid escalator. And the third is in the lower part. It mainly heats the whole escalator.



Guardrail glass color



Colorless and transparent (Standard)

Deep gray

Bronze

Yellow

Handrail color



The armrest belt has strong breaking resistance and durability. It is made of flame retardant material to prevent fire from expanding in case of fire. With a de-static device to prevent static electricity. Various color schemes are available to customize the beautiful appearance of your personality.

Installation layout

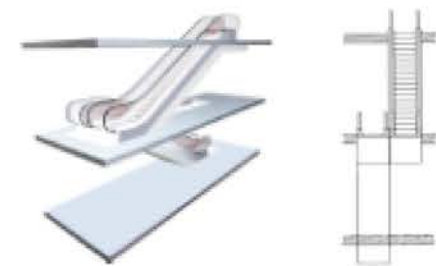
Intermittent layout (one-way traffic)

Suitable for small-sized shopping malls with three floors.



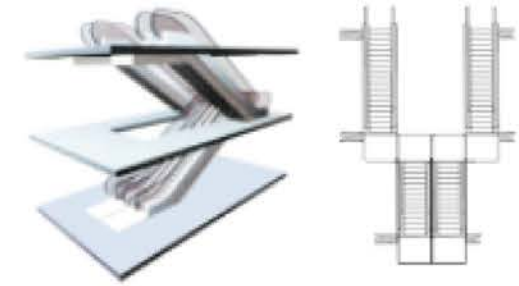
Continuous layout (one-way traffic)

Continuous escalators or sidewalks connect several floors. It needs more space than discontinuity.



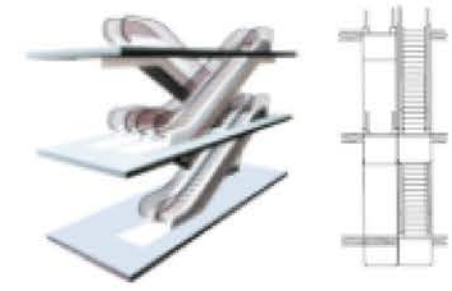
Parallel continuous arrangement (two-way transportation)

The layout of this type may cause slight inconvenience to shoppers, but advantageous for shopping mall owners since they can market certain products and services to shoppers on their way to change escalators.

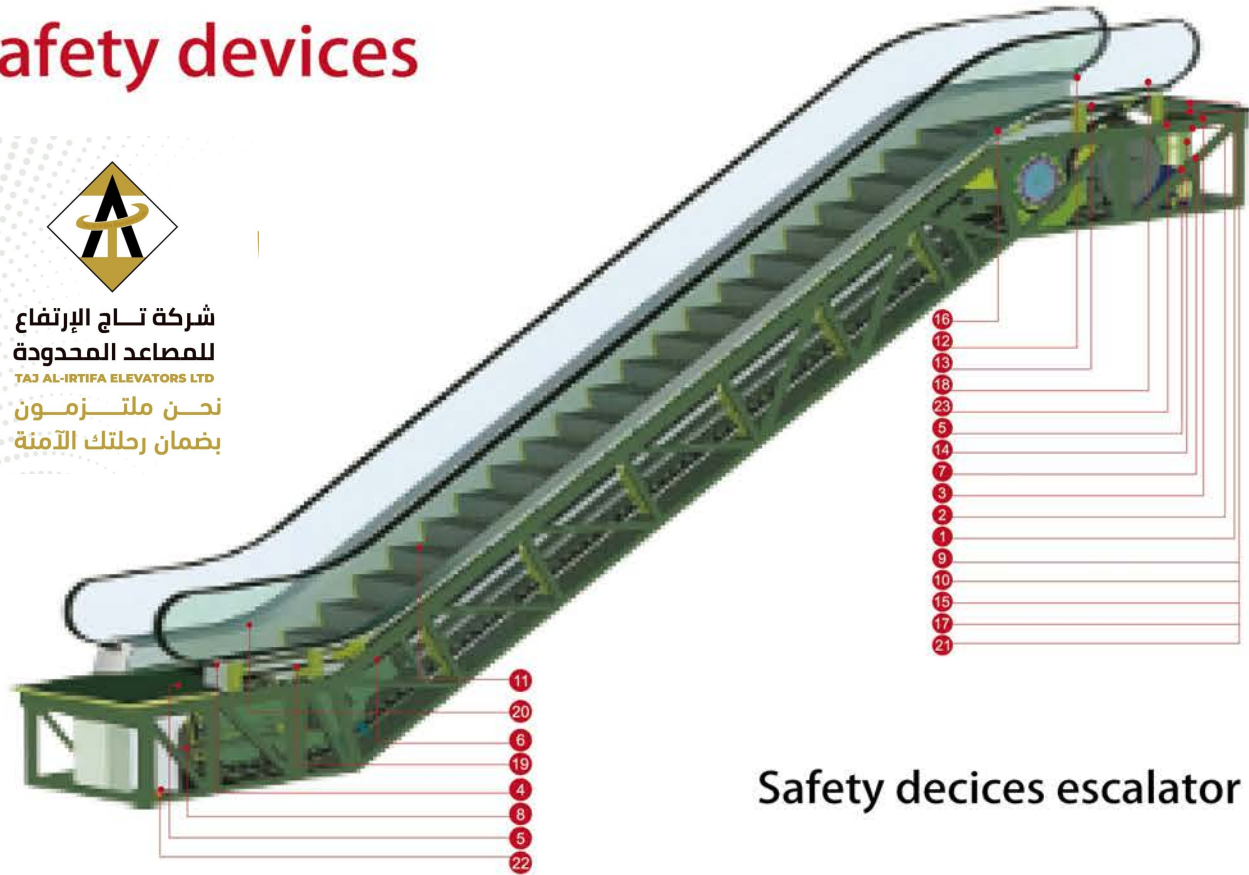


Intersection continuous arrangement (two-way transportation)

The escalator installed in multi-storey can serve two operation directions. This form is mostly used in shopping malls, and now it is more and more used in government agencies and public places.



Safety devices



Safety devices escalator



Safety devices of moving walk

Standard Safety Device

1.Lack of phase, error phase protection:

If lack of phase or error phase has been checked out, the escalator (auto-walk) will automatically stop the operation.

2.Motor over-load protection:

When the current exceeds 15% of the current rating, the escalator will automatically stop the operation.

3.Electrical appliance loop protection:

It offers the automatic circuit disconnecting device to protect the circuit and mains components of the escalator (auto-walk).

4.Handrail inlet protection:

When some foreign substance has been clipped in the handrail inlet, the escalator (auto-walk) will automatically stop the operation.

5.Comb plate safety device:

When some foreign substance has been clipped in or between the combs, the escalator (auto-walk) will automatically stop the operation.

6.Step sagging protection device:

When there is abnormal step bending, the escalator (auto-walk) will stop the operation before the step entering into the comb plate.

7. Broken drive-chain safety device:

when the drive-chain has been over-stretched or it is broken, the escalator (auto-walk) will automatically stop the operation.

8.Broken step chain protection:

when the step (plate) chain has been over-stretched or it is broken, the escalator (auto-walk) will automatically stop the operation.

9.Over-speed protection:

When there is over-speed to the escalator (auto-walk), it will automatically stop the operation.

10.Direction reversal protection:

when it comes the unintentional reversal of the direction of travel, the escalator (auto-walk) will automatically stop the operation.

11.Security line:

The yellow synthetic resin security line is located in the front position and two sides of the escalator tread so that the passengers will not tread in-between the edge of the adjacent step and the lift. group lengthened skirt panel. The security line on both sides of the step is higher than the tread surface. (The auto-walk offers the selective yellow spray-painted security line.)

12. Emergency stop button:

When the button has been pressed down, the escalator (auto-walk) will stop the operation.

13.Skirt panel protection:

When some foreign substance has been clipped in between the skirt panel and the step, the escalator (auto-walk) will automatically stop the operation.

14.Brake protection:

When the electric force falls short of supply or it acts any of the safety device, the brake function goes into effect by the safety device through the spring resilience action. In this way, the escalator (auto-walk) stops the operation.

15.Safety inspection switch:

It is a safety device to prevent from the escalator starting during the inspection and maintenance.

16.Step Illumination

Illumination exists in the upper and lower ends of the escalator, in the lower part of the step in order to remind the passengers of the security matters.

17.Alarm bell starting device:

The alarm bell rings when it starts the escalator in order to remind the passengers of the security matters.

18.Control device for handrail breakage:

When the handrail is broken, the escalator will automatically stop the operation.

Optional Safety Device

19.Handrail speed monitor:

When the handrail speed versus step is slower than certain percentage, the escalator (auto-walk) will stop the operation.

20.Skirt panel brush:

It is a selective safety device. The brush that has been installed between the skirt panel and the step will prevent the passengers from touching the skirt panel. (It is not merely restricted to the escalator.)

21.Fire-proof rolling door device:

when this device comes into action, it can stop the escalator(auto-walk) operation. It has been installed near the escalator(auto-walk).

22.Lower machine room drain:

When it exceeds the standard to water intake in the lower machine-room, it will operate the automatic drain system. (outdoor type)

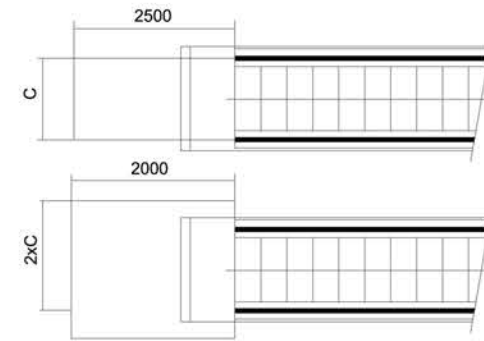
23.Emergency brake:

It prevents from the escalator slide and ensures the human security in case of the drive chain breakage or the out-of-order of the brake. (It should be allocated with the emergency brake when 6m < H.)

Civil installation notes

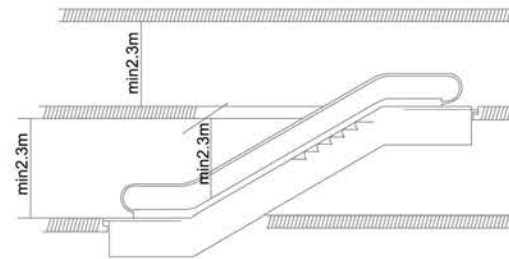
Besides complying with the drawing of the contract, attention should also be drawn to the following

To ensure the safety of the escalator and moving walk, free space should also be large enough in the landing area. (See the minimum size right)
 C=handrail belt width



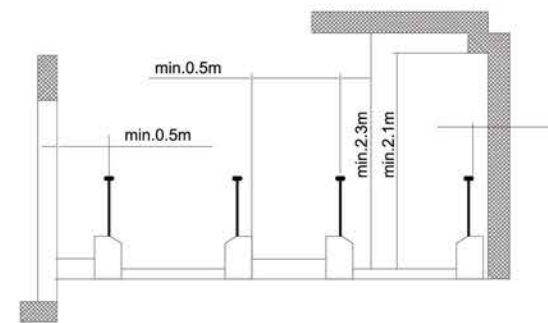
Vertical safety distance

There should be at least 2.3m upside safety distance starting upward from the step board.
 Notice: if the vertical rise of one escalator, which is installed above another one, is less than 3.3m, the upside safety distance can not reach 2.3m.

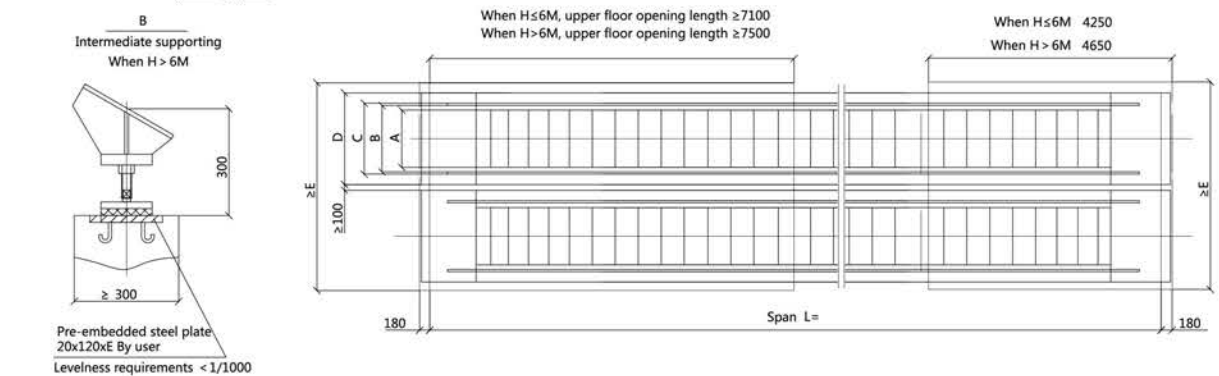
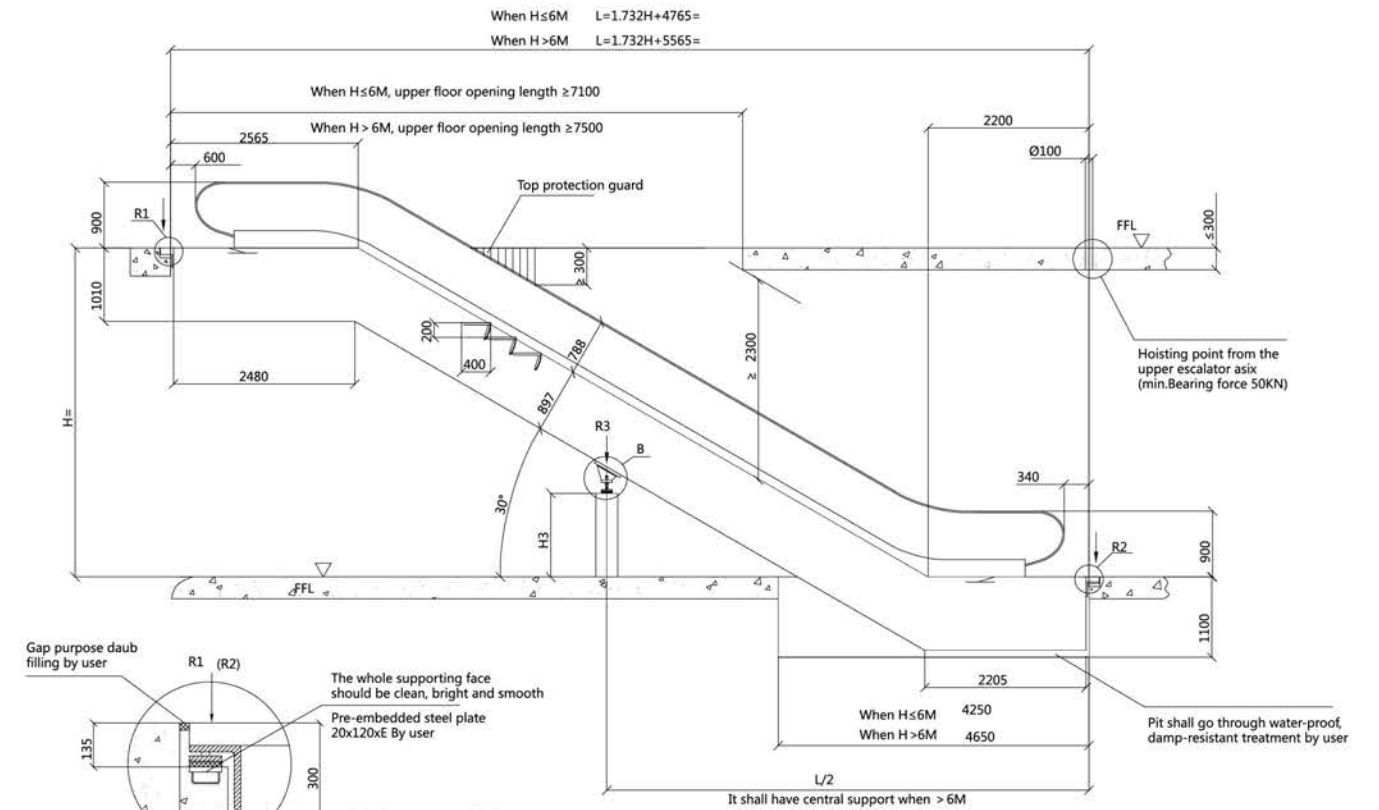


Escalators and moving walk horizontal safety distance

The horizontal distance between the handrail edge and the wall or other objects should be more than 80mm.
 The vertical distance above the step board should be more than 2.3m.
 The vertical distance above the handrail space should be more than 2.1m.
 In case of floor spaces or the cross layout of escalators and moving walk, the safety distance between the handrail center and the object should be more than 0.5m.
 If the above-mentioned requirements cannot be met, a special protection device and a bumper rail should be used.
 For further information, please contact FUSIJG elevator.

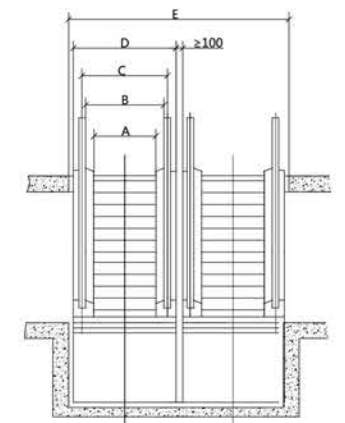


30° escalator construction drawing

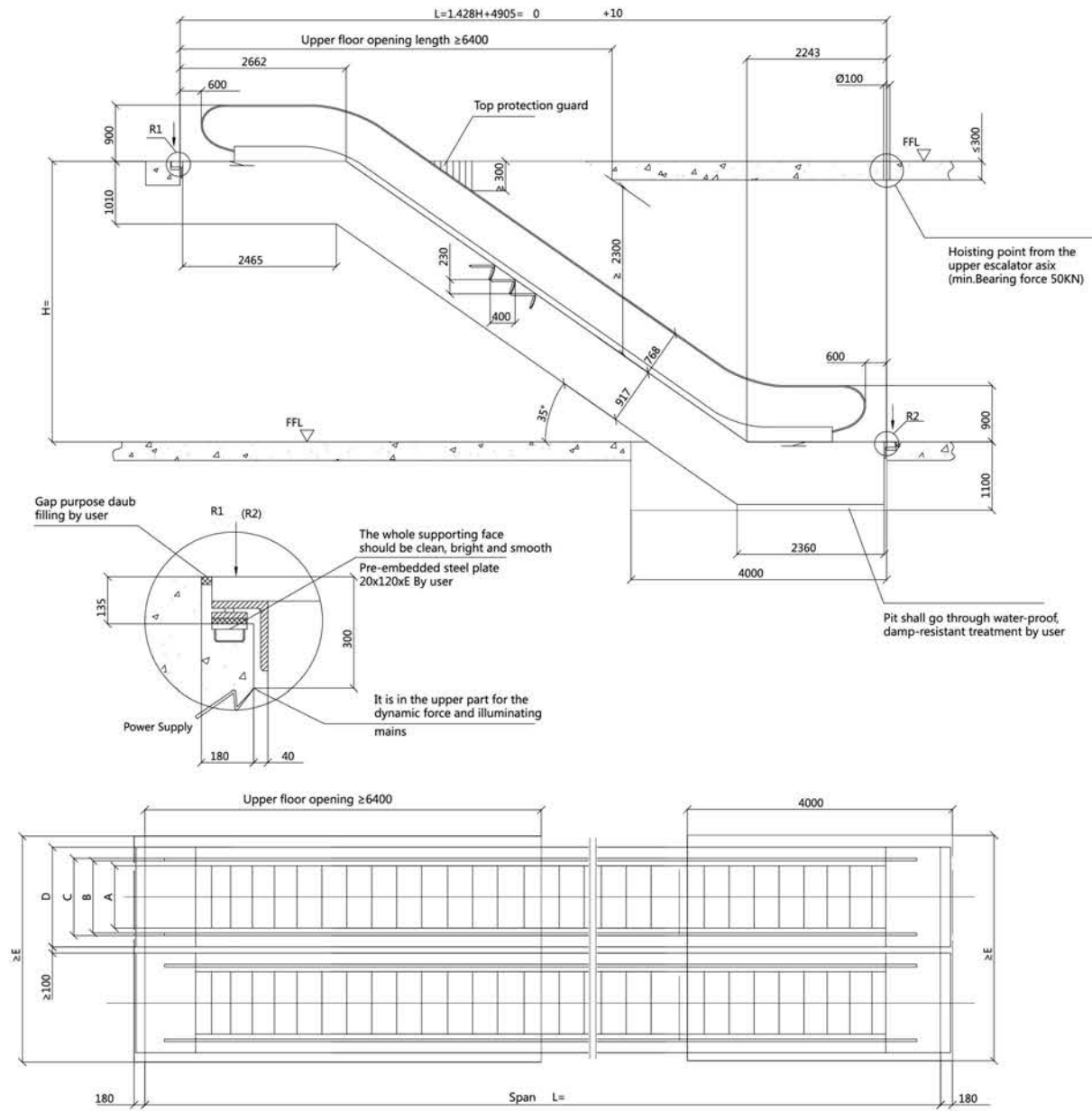


Model	Travelling height (mm)	Net weight (KN)	supporting		Motor power KW	Transport size	
			R1 KN	R2 KN		h	l
VF800/0.5-30° (4800人/h) speed : 0.5m/s	3000	118	104	94	5.5	2750	10900
	3500	126	112	100		2780	11890
	4000	134	120	108		2810	12880
	4500	142	128	114	8	2830	13870
	5000	148	136	120		2840	14860
	5500	164	148	132		2860	15860
VF1000/0.5-30° (6000人/h) speed : 0.5m/s	3000	126	118	106	5.5	2750	10900
	3500	134	128	114		2780	11890
	4000	142	136	122		8	2810
	4500	150	146	130	2830		13870
	5000	166	158	142	2840		14860
	5500	174	168	150	11	2860	15860
6000	184	176	158	11	2870	16850	

step width mm	1000	1000	1228	1238	1600	3400
	800	800	1028	1038	1400	3000
	A	B	C	D	E	
Intermediate supporting	$(L/2-2600) \times \tan 30^\circ - (897/\cos 30^\circ + 300)$					

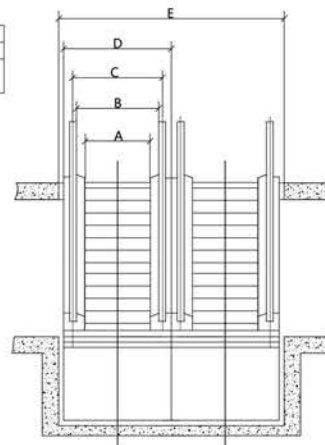


35° escalator construction drawing

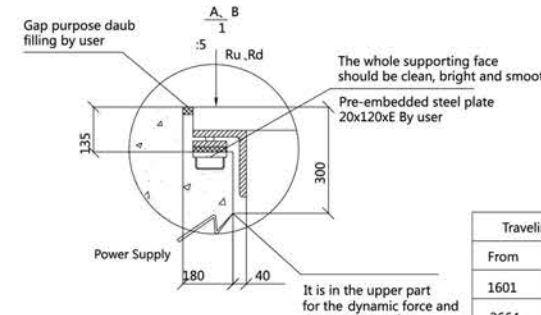
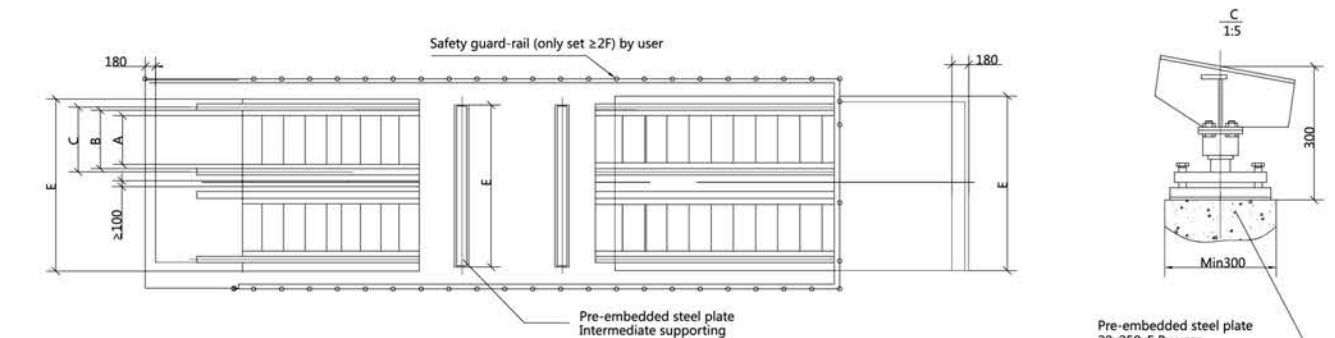
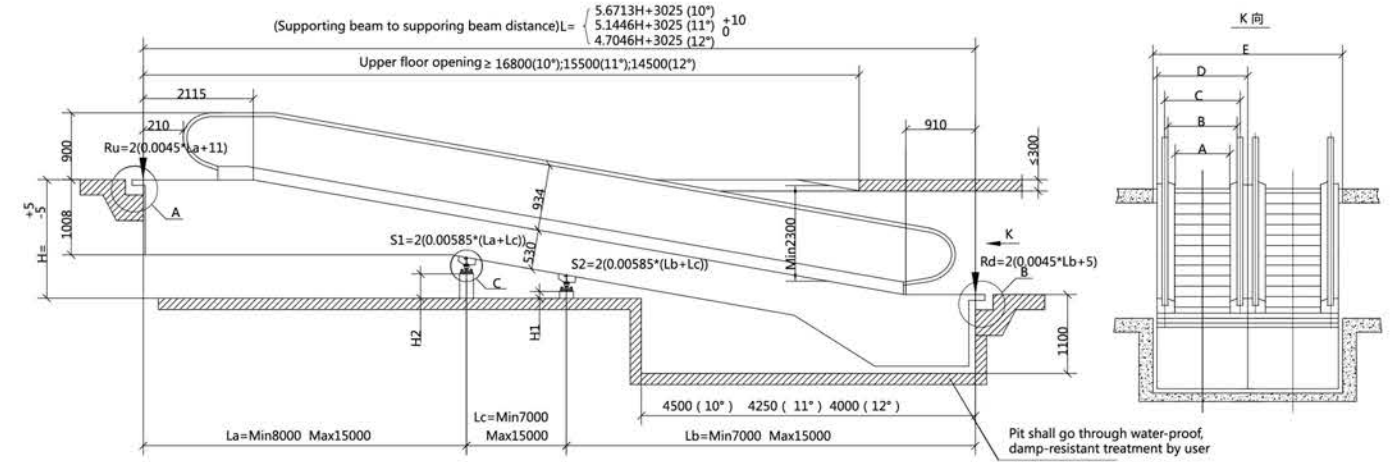


Model	Travelling height (mm)	Net weight (KN)	supporting		Motor power KW	Transport size	
			R1 KN	R2 KN		h	l
VF800/0.5-35° (4800人/h) speed : 0.5m/s	3000	112	98	88	5.5	2850	10180
	3500	120	104	94		2890	11030
	4000	126	112	100		2920	11890
	4500	132	118	106		2940	12750
	5000	140	124	112		2970	13610
	5500	146	130	118		2980	14470
VF1000/0.5-35° (6000人/h) speed : 0.5m/s	3000	120	112	100	5.5	2850	10180
	3500	128	120	106		2890	11030
	4000	134	128	114		2920	11890
	4500	142	134	120		2940	12750
	5000	148	142	128		2970	13610
	5500	158	154	138		2980	14470
6000	166	162	144	3000	15330		

step width mm	1000	1000	1228	1238	1600	3400
	800	800	1028	1038	1400	3000
	A	B	C	D	E	



12° moving walk construction drawing



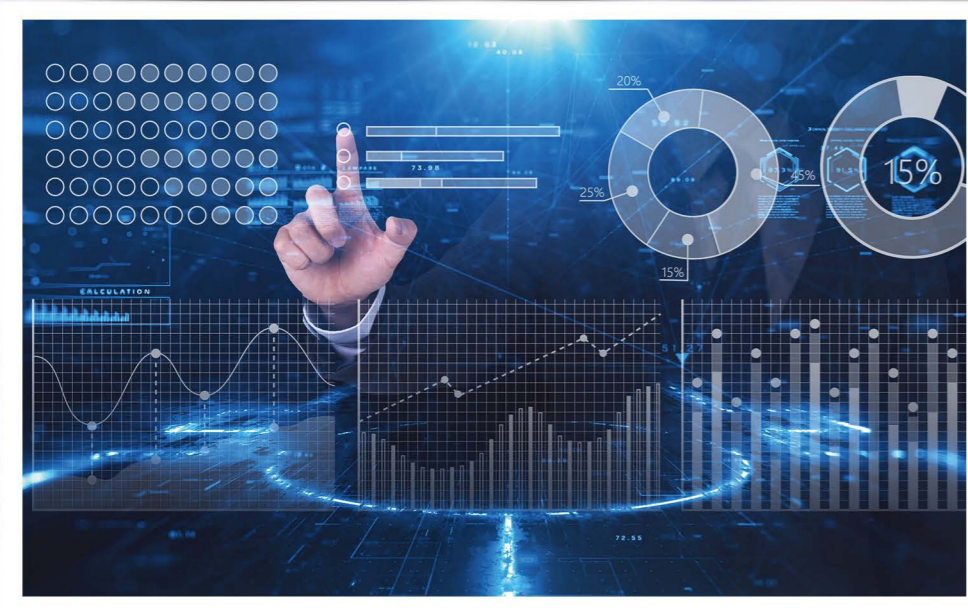
step width mm	1000	1000	1228	1238	1600	3400
	800	800	1028	1038	1400	3000
	A	B	C	D	E	

Traveling height From	Traveling height To	Intermediate supporting		La(mm)	L b (mm)	L c (mm)
		S1	S2			
1601	2663					
2664	4151	1		L-7000	7000	
4152	5851	1		15000	L-15000	
5852	6000	1	1	15000	7000	L-22000
A			H2			H1
10°			$H_2 = H - (L_a - 1995) \times 0.1763 - 840$			$H_1 = H_2 - (L_c \times 0.1763)$
11°			$H_2 = H - (L_a - 2055) \times 0.1944 - 840$			$H_1 = H_2 - (L_c \times 0.1944)$
12°			$H_2 = H - (L_a - 2115) \times 0.2126 - 840$			$H_1 = H_2 - (L_c \times 0.2126)$

Note: when traveling height is over 6m, construction size please consult our company

step width (mm)	Traveling height (mm)	Speed (m/s)	Rated load capacity	Inclination (°)	Power (kW)	Power supply capacity (KVA)	Rated current (A)
800	1000-3800	0.5	4800	10,11,12	7.5	15	39
	3800-6000				11	22	58
1000	1000-3000	0.5	6000	10,11,12	7.5	15	39
	3000-4800				11	22	58
	4800-6000				15	30	78

All-round after-sale service



7*24-hour safeguard

FUJI elevator adopts a housekeeper service standard to ensure that customers can conduct after-sales consultation within 24 hours at any time, and professional customer service personnel will help customers solve problems for the first time.



Modular installation

Factory modular production, saving installation labor and time costs. Minimal installation difficulty, minimal assembly errors.



Export directly to the site

Shipping and customs clearance agents in hundreds of countries, tell us where your elevator needs to be installed, provide one-stop service.

It shows repair and maintenance value produces the considerate service

FUJI Elevator, with its first-class technology, rich management experience and excellent service, enjoys scientific maintenance and strict quality control of its products. We have won wide praise from customers at home and abroad for its stable quality and super high cost performance. Our service outlets have advanced logistics systems all over the country, which can fully guarantee customers' demand for delivery at any time and provide high-quality clothing. Business, early-sub-service, more care.



Professional teams



Prompt & convenient services



Service hot-line



Professional repair & maintenance